

Title (en)  
GAS MEASURING DEVICE

Title (de)  
GASMESSGERÄT

Title (fr)  
APPAREIL DE MESURE DE GAZ

Publication  
**EP 3092486 A1 20161116 (DE)**

Application  
**EP 15700526 A 20150109**

Priority  
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• EP 2015000028 W 20150109

Abstract (en)  
[origin: WO2015104221A1] The invention relates to a sensor unit (10) for detecting a gas. In order to provide an improved sensor unit (10), the sensor unit according to one aspect of the invention is designed with: a pressure-tight measuring channel (11), a gas inlet (12) for introducing the gas into the measuring channel, a gas outlet (13) for discharging the gas from the measuring channel, and a pump unit (14) for evacuating the measuring channel, wherein the measuring channel has a gas sensor (15) for detecting the gas and a heating unit (16) for heating the gas sensor, and wherein the sensor unit (10) is designed to be operated in a measuring mode and a regeneration mode, wherein in the regeneration mode the measuring channel (11) is evacuated and the gas sensor (15) is heated.

IPC 8 full level  
**G01N 33/00** (2006.01)

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Citation (examination)  
• MULLER C ET AL: "Sensitive NO<sup>2</sup> detection with surface acoustic wave devices using a cyclic measuring technique", SENSORS AND ACTUATORS B: CHEMICAL, ELSEVIER BV, NL, vol. 68, no. 1-3, 25 August 2000 (2000-08-25), pages 69 - 73, XP004216594, ISSN: 0925-4005, DOI: 10.1016/S0925-4005(00)00463-9  
• P RUNTHAL ET AL: "A material for room temperature FET sensor to detect ammonia and hydrocarbon gases", 1 December 2000 (2000-12-01), pages 336 - 339, XP055596386, Retrieved from the Internet <URL:http://nopr.niscair.res.in/bitstream/123456789/24424/1/IJEMS%207(5-6)%20336-339.pdf> [retrieved on 20190613]  
• URBIZTONDO M A ET AL: "Detection of organic vapours with Si cantilevers coated with inorganic (zeolites) or organic (polymer) layers", SENSORS AND ACTUATORS B: CHEMICAL, vol. 171, September 2012 (2012-09-01), pages 822 - 831, XP028932195, ISSN: 0925-4005, DOI: 10.1016/J.SNB.2012.05.078  
• See also references of WO 2015104221A1

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